

John Shively PE

Cohesion of soil : $c_{ef} = 25.0$ psf
 Saturated unit weight : $\gamma_{sat} = 121.0$ pcf

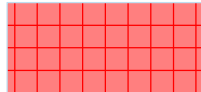
Granular Backfill

Unit weight : $\gamma = 135.0$ pcf
 Stress-state : effective
 Angle of internal friction : $\phi_{ef} = 39.00^\circ$
 Cohesion of soil : $c_{ef} = 0.0$ psf
 Saturated unit weight : $\gamma_{sat} = 135.0$ pcf

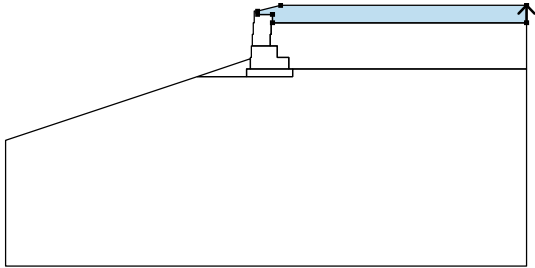

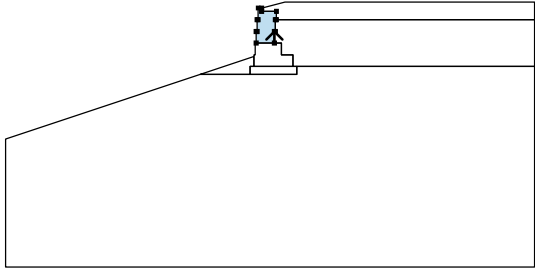
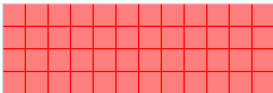
Sand and Gravel - Foundation Soil

Unit weight : $\gamma = 130.0$ pcf
 Stress-state : effective
 Angle of internal friction : $\phi_{ef} = 30.00^\circ$
 Cohesion of soil : $c_{ef} = 0.0$ psf
 Saturated unit weight : $\gamma_{sat} = 130.0$ pcf

Rigid Bodies

No.	Name	Sample	γ [pcf]
1	Material of structure		120.0

Assigning and surfaces

No.	Surface position	Coordinates of surface points [ft]				Assigned soil
		x	z	x	z	
1		35.00	-1.50	35.00	0.75	Lean Clay 
		3.00	0.75	0.00	0.00	
		0.00	-0.42	1.92	-0.42	
		1.92	-1.50			
2		1.65	-4.50	1.65	-3.00	Material of structure 
		1.78	-3.00	1.78	-1.50	
		1.92	-1.50	1.92	-0.42	
		0.00	-0.42	0.00	0.00	
		-0.42	0.00	-0.42	-1.50	
		-0.55	-1.50	-0.55	-3.00	
		-0.69	-3.00	-0.69	-4.50	